L 3759-66 ENT(m)/ENP(t)/ENP(b) IJP(c) JD

ACC NR. AP5027867

CZ/0034/65/000/001/0072/0072

AUTHOR: Petlicka, J. (Engineer); Bastocky, V.; Kloc, K.; Riha, V.; Vesely, V.; Hadacek, B. (Engineer); Jelinkova, V. (Doctor of natural science); Strubl, R. (Doctor of natural science)

TITIE: Method of treating manganese ores to obtain higher oxides of Mn

SOURCE: Hutnicke listy, no. 1, 1965, 72

TOPIC TAGS: metal melting, manganese, manganese compound, sulfuric acid

ABSTRACT: Article is an abstract of Gzechoslovak Patent Application Class 40a, 47/00, PV 421-64, dated 24 Jan 64. Solid sulfates, preferably the monohydrate are exposed at 900°C to a mixture of steam and nitric acid vapors. In the reactor Mn is oxidized, and sulfuric acid regenerated. Reaction space vapors are cooled to recover sulfuric acid as a condensate, while nitric oxides are recovered in the usual manner. The advantage of the process is that Mn is recovered as solid oxide suitable for metallurgical uses, and sulfuric and nitric acids are regenerated.

ASSOCIATION: none

SUBMITTED: 24Jan64

NR REF SOV: 000

ENCL: 00

OTHER: 000

SUB CODE: MM

**JPRS** 

1. 311149-66 ACC NR. AP6026046

SOURCE CODE: CZ/0034/66/000/003/0226/0226

AUTHOR: Bastecky, V.; Petlicka, J. (Engineer); Hermova-Rosova, E.; Srbkova, V.

SOUNDED BY THE SERVICE OF THE SERVIC

ORG: none

TITLE: Method for an economical treatment of solutions containing metal ions by means of ion exchangers

SOURCE: Hutnicke listy, no. 3, 1966, 226

TOPIC TAGS: ion exchange, metallurgy

ABSTRACT: The article is a summary of Czechoslovak Patent Application Class 40a, 9/02,40a, 47/00, PV 2792-64, dated 14 May 64. The invention is suitable preferentially for the treatment of highly concentrated solutions, such as may be found in treatment of ores, concentrates, slag, or chemicals, where a limitation of the recirculated liquid is an advantage. The basis of the invention consists in producing solutions at various levels of concentration, at recirculating them at suitable levels in a closed cycle, or using them for other purposes.

[JPRS: 36,646]

SUB CODE: 07,11/ SUBM DATE: none

Cord 1/1 1/1/2

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001240

L 62733-65 EWP(t)/EWP(b) JD

ACCESSION KR: AP5021467 CZ/0034/64/000/011/0834/0834 /y

AUTHOR: Hadacek, B. (Engineer); Petlicka, J. (Engineer); Bastecky, V.; Kloc, K. Estrubl, R. (Doctor of natural sciences)

TITLE: Hethod of removing metals, forming products subject to hydrolysis from solutions

SOURCE: Butnicke listy, no. 11, 1964, 834

TOPIC TAGS: metal extracting, hydrolysis, acid catalysis

Abstract: The article describes Czechoslovak Patent Application Class 1,0a, 3/00, PV 5726-63, dated 18 Oct 1963. The linvention covers a method used in hydrometallurgical processes where the ores are first leached with acid, the solution heated and oxidized under pressure, and precipitated products are separated. The invention covers a process whereby the solution is mixed under pressure with such an amount of the untreated ore that all the acid components of the solution can combine with the metal contained in the untreated ore.

Cord 1/2

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

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33.00 72.45	ASSOCIATION: none							1
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L 63297.-65

ACCESSION NR: AP5020876

02/0034/64/000/010/0720/0724

AUTHOR: Petlicka, Jaroslav (Engineer); Bastecky, Vladimir

织

TITLE: Detoxication and treatment of spent sulfate pickling baths

SOURCE: Hutnicke listy, no. 10, 1964, 720-724

TOPIC TAGS: pickling, sulfate, chemical neutralization, crystallization, sulfuric acid

ABSTRACT: Possibilities are discussed of detoxicating spent sulfate pickling baths by neutralizing and crystallizing ferrous sulfate hepta- and monohydrates, with subsequent treatment consisting mainly of sulfuric acid recovery. Utilization of the most important chemical and electrochemical treatment techniques as well as the use of ion exchangers is mentioned. Orig. art. has: 1 table, 8 formulas,

ASSOCIATION: Vyskusny ustav uslechtilych oceli, Prague (High-Grade Research

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, GC

NR REF SOV: 000

OTHER: 017

**JPRS** 

Card 1/1

PETLICKA, Jaroslav, inz.; KREJCOVA, Vera, inz.

Outline of hydrometallurgic methods of manganese raw material processing. Hat listy 18 no.98660-663 S'63.

1. Vyzkumny ustav uslechtilych oceli, Praha.

PETLICKA, Jaroslav, inz.; BASTECKY, Vladimir

Treatment of Chvaletice manganese raw materials by the hydrometallurgic method. Hut listy 19 no. 2: 117-122 F '64.

1. Vyzkumny ustav uslechtilych oceli, Praha.

PETLICHNA, L.I. [Petlychna, L.I.]; VVFDENSKIY, V.M. [Vvedens'ky1, V.M.];

TURKEVICH, M.M. [Turkevych, M.M.]

3-alkyl derivatives of rhodanine, their synthesis and properties.
Farmatsev. zhur. 16 no.4:7-9 '61. (MIRA 17:6)

1. Kafedra farmatsevticheskoy khimii L'vovakogo meditainskogo instituta.

(MIRA 15:3)

TURKEVICH, N.M.; VVEDENSKIY, V.M.; PETLICHNAYA, L.I.

A CONTRACTOR OF THE PROPERTY O

Synthesis of this colidone derivatives of biological interest. Part 18: N,N'-tetramethylene-bis-rhodanine and its 5,5-diarylidene derivatives. Zhur.ob.khim. 32 no.3:980-981 Mr '62.

1. L'vovskiy meditsinskiy institut.

(Cyclobutane) (Rhodanine)

The second second process of the second seco

PETLICHNAYA, L.I.; TURKEVICH, W.M.; VVEDENSKIY, V.M.

Substitution in the azolidine ring. Part 15: Thiourethanes as starting materials in the synthesis of derivatives of 2,4-thiazolidinedione. Ukr. khim. zhur. 29 no.2:170-171 163.

1. L'vovskiy nauchno-issledovatel'skiy institut perelivaniya krovi.

(Urethanes) (Thiazolidinedione) (Substitution(Chemistry))

VVEDENSKIY, V.M.; TURKEVICH, N.M.; PETLICHNAYA, L.I.

Substitution in the amolidine ring. Part 16: Synthesis of 3-butylrhodanine and its 5-arylidene derivatives. Ukr. khim. shur. 29 no.2:175-176 63. (MIRA 16:6)

l. L'vovskiy nauchno-issledovatel'skiy institut perelivaniya krovi.

(Rhodanine)

TURKEVICH, N.M.; VVEDENSKIY, V.M.; PETLICHNAYA, L.M.

Substitution in the azolidine ring. Part 13: Method of preparing pseudothiohydantoin and 2,4-thiazolidinedione. Ukr.khim.zhur. 27 no.5:680-681 '61. (MIRA 14:9)

1. L'vovskiy meditsinskiy institut.
(Hydantoin) (Thiazolidinedione)

# "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

j	L 18506-66 EWP(t) IJP(e) JD  ACC NR. AP6010253
	AUTHOR: Petlicka, Jaroslay (Engineer): Vosatkova V
Berner	
eriarugas.	oxide during regeneration of sulfuric acid
41.00	SOURCE: Hutnicke listy, no. 3, 1965, 195-100
	Appropries: manganese compound, sulfate, oxidation, nitric acid sulfate.
	tion by gaseous nitric acid was used. The product is read-
	recovered, and returned to the process. Lower N oxides are than into nitric soid. Other possible exidation agents are discussed. Orig. art. has: 7 figures, 5 formulas, and 3 tables. [JPRS]
	SUB GODE: 07 / SURM DATE: none / ORIG REF: 002 / OTH REF: 012
	Cord 1/19 UDG: 622.313 21 (20 cmr ) Z
	UDC: 622.343.2: 622.775.1 Z

<u>L 18148-66</u> EWP(t)IJP(c) ACC NR: AP6010383 SOURCE CODE: 07/0034/65/000/005/0356/0359 AUTHOR: Petlicka, Jaroslav (Engineer); Bastocky, Vladimir ORG: Iron Metallurgy Research Institute, Prague (Vyzkumny ustav hutnictvi zeleza) TIPLE: Crystallization of ferrous sulfate monohydrate from spent pickling liquor at higher temperatures and pressures SOURCE: Hutnicke listy, no. 5, 1965, 356-359 TOPIC TAGS: iron compound, sulfate, solubility, crystallization, temperature dependence, pressure effect Perrous sulfate crystallizes with 7, h or 1 molecule of water. Its solubility in water decreases with increasing temperature from 64.4°C to 160°C. Effect of higher temperatures, pressures and acid concentrations upon the crystals is evaluated. Experimental apparatus is described. Close to 160° it is possible to remove from the liquor nearly all the Pe and therefore acid can be recycled. Possible uses of ferrous sulfate are discussed. The authors thank Stanislava Kaplanova for carrying out the chemical analysis. Orig. art. has: 3 figures and 3 tables. [JPRS]

SUB CODE: O7, 20 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 001 Cord 1/1

L 35944-66 EWT(m)/EWP(t)/ETI IJP(c) ACC NR. AP6027384 SOURCE CODE: CZ/0034/65/000/009/0680/0680 INVENTOR: Petlicka, J. (Engineer); Bastecky, V.; Hadacek, B. (Engineer); Jelinkova. V. (Doctor of natural sciences); Kloc, K.; Vesely, V. 31 TITLE: Process for treating manganese or ferro-manganese raw materials under 3 simultaneous regeneration of sulfuric acid. Class 40a, No PV 1562-64 SOURCE: Hutnicke listy, no. 9, 1965, 680 TOPIC TAGS: manganese, ferromanganese, sulfuric acid, metallurgic process, chemical decomposition, calcination ABSTRACT: The article is an abstract of Czechoslovak Patent Application Class 40a, 47/00, PV 1562-64, dated 18 March 64. The raw materials treated may be ores, concentrates, sludges, slags, or byproducts. The process is of a hydrometallurgical character; manganese or both manganese and iron are dissolved as sulfates, and these sulfates are treated according to the invention in such a manner that higher oxides of the respective metals are obtained under conditions of a simultaneous regeneration of the sulfuric acid. The sulfate is subjected to an attack by hydrochloric acid, or gaseous hydrogen chloride, or both of these at the same time; sulfuric acid is expelled, and the resulting chlorides of metals are precipitated as solids from the concentrated solution. The chlorides are decomposed by calcination and the regenerated HCl is returned to the process. [JPRS] SUB CODE: 11, 16 / SUBM DATE: none Cord 1/1

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L 34146-66 ACC NR: AP6026049

SOURCE CODE: CZ/0034/66/000/003/0227/0227

AUTHOR: Petlicka, J. (Engineer); Vesely, V.

ORG: none

TITLE: Method of treatment of carbonate pyrites bearing manganese ores

SOURCE: Hutnicke listy, no. 3, 1966, 227

TOPIC TAGS: manganese compound, pyrite, chemical reaction

ABSTRACT: The article is a summary of Czechoslovak Patent Application Class 40a, 47/00, PV 215-65. dated 12 Jan 65. The basis of the invention is that in a single step the pyrites is oxidized and decomposed into iron oxide and sulfuric acid, which immediately dissolves Mn; Mn is in the solution while the remaining ore and the hydrolyzed iron oxide are present as solids. In the presence of phosphorus, iron phosphate would also be formed as a solid. The solution contains a relatively pure manganese sulfate. The oxidizing agent is preferably oxygen in gaseous form, [JPRS: 36,646]

SUB CODE: 07 / SUBM DATE: none

Cord 1/1

0116

L 34432-66 EWP(t)/ETI IJP(c) ACC NR. AP6026200

SOURCE CODE: CZ/0034/65/000/011/0800/0804

AUTHOR: Petlicka, Jaroslav--Petlichka, I. (Engineer); Vesely, Vladimir--Veselyy, V.

ORG: Institute of Ore Research, Prague (Ustav pro vyzkum rud)

TITIE: Pressure leaching of manganese ores with the use of pyrite

SOURCE: Hutnicke listy, no. 11, 1965, 800-804

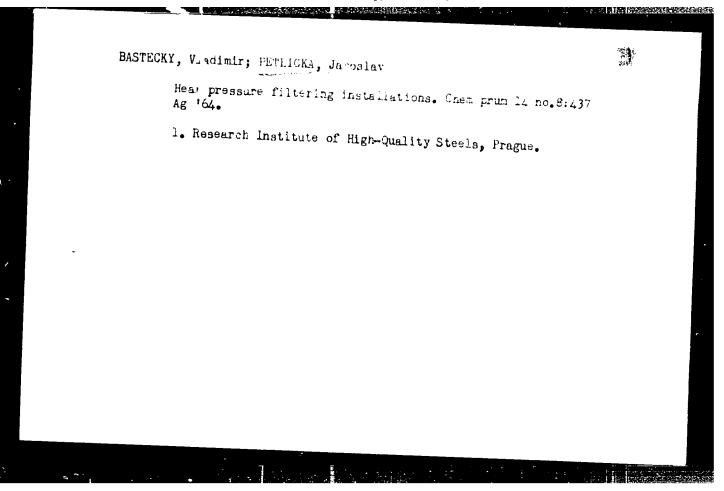
TOPIC TAGS: manganese, pyrite, sulfuric acid

ABSTRACT: The article describes a technique in which pyritic sulfur in the treated carbonaceous manganese ore is present in such amount as to be capable of fixing almost all manganese of the ore as manganese sulfate. It permits combining the production of sulfuric acid from the pyrite, the leaching of manganese from the ore, and the removal of iron from the leach residue into one operation. Orig. art. has: 2 figures, 9 formulas and 4 tables. [Based on authors' Eng. abstract]

SUB CODE: 08, 11 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 003

Cord 1/1 HB

ACC NR. AF6010257 -	SOURCE CODE: CZ/O		•
AUTHOR: Hadacek, B. (Engineer) Kloc, K.; Vesely, V.; Bastecky,	; Strubl, R. (Doctor of natura V.; Petlicka, J. (Engineer)	l sciences); Riha,	<u>V.;</u>
ORG: none		3	4
TITLE: Method for treating pho SOURCE: Hutnicke listy, no. 3,		ose ores	3 .
TOPIC TAGS: sulfuric acid, pho			•
cation Class 18a 1/04 PV 6 peatedly leached by sulfur pH of 1 - 3, and the react and at the same time oxidition is continued until the when a new amount of ore i P content in the ore. The tion of iron ore. The iron by an exidizing agent, suclipas!	ric acid; the solution obtains mixture is heated to zed by hydrogen peroxide to bulk of phosphorus is added, corresponding to content of Fe can be adjusted to the filtrate of as a peroxide of mangar	The ore is re- sained has a 60 - 100°C, ; the exid - eliminated, the remaining sted by addi- may be adjusted	
SUB CODE: 07, 11 / SUBM DATE	none		
1 <i>h</i> /) <b>C</b>			2-
Cord 1/1/)			2



PETLICKA, Jaroslav, inz.; BASTECKY, Vladimir

Detoxication and processing of pent sulfatic pickling baths. Hut listy 19 no.10:720-724 0 '64.

1. Research Institute of High-Quality Steels, Prague.

RYZHOV, L., kand.tekhn.nauk; MEYYER, N., inzh.; PETLITSKIY, Yu., inzh.

Results of testing automatic linkages. Rech. transp. 20 no.5:1822 My '61.

(Towing)

RANGINOV.A.G.; TYUMENETS, Vasiliy; PETLIE, Ivan; BAIKOV, Fedor

[First Russian travelers in Mongolia and Horthern China] Pervye russkie puteshestvenniki v Mongoliu i Severnyi Mitai: Vasilii Tiumenets, Ivan Petlin, Fedor Baikov. [Izd. 2.] Moskva, Gos. geograficheskoe izd-vo, 1954. 52 p.

(Mongolia--Description and travel) (China--Description and travel)

**建设设置的设置的企业的企业** 

CV: 110-11-12 -12 11

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1952, Nr 18, p 10% (USCR)

The boundary in the state of th

/UTHOR:

Petlin, M.L.

TITLE:

On Non-Primitive Circuits

PERIODICAL:

V sb.: Probl. kibernetiki., Nr l, Moscow, Gos. izd-vo fiz.-matem. lit.,

1958, pp 23 - 45

ABSTRACT:

Circuits are investigated, having n inputs  $x^1 ext{...} x^n$  and p outputs  $f^1 ext{...} f^d$ , each of which may at any fixed moment be in one of two states (S). If the S of outputs is uniquely determined by the states of inputs at a given moment, such a circuit is called primitive. If there are S delay lines in the circuit (this may particularly be the case with electromagnetic relays) the S of outputs at the moment t+1 will depend also on the S of the circuit.  $\Phi_t = (\Psi_t, \dots, \Psi_t)$ , where  $\Psi_t$  is the S of delay line J  $(1+1, 2, \dots, s)$  at the preceding moment t. The simplest example of such a circuit which is called non-primitive is the trigger. The non-primitive circuit is characterized by the square matrix of S of the order  $2^{S}$ :

Card 1/3

$$\Lambda (X_{t+1}) = \{aij (x^1_{t+1}, ..., x^n_{t+1}) \}.$$

SOV/112-59-18-30704

This matrix shows that the inputs  $X_{t+1} = (x^1_{t+1}, \dots, x^n_{t+1})$  for which  $a_{i,j} = 1$ , stipulate the transfer of the non-primitive circuit from S i into S j. If  $a_{i,j} = 0$  at any input  $X_t$ , the transfer of the circuit from 1-state into 3 J. II all = 0 at and if  $a_{1j} = 1$  the transfer takes place independently of the 3 of inputs. The changes of S of the non-primitive circuit can be expressed in the following form:

The dependence between the S of the inputs  $X_{t+1}$  and of the outputs  $F_{t+1}$  are determined by the reaction matrix L  $(\phi)_t$ , having 2n lines and 2n columns. The elements of this matrix are functions of the S of the delay lines. matrix are functions of the S of the delay lines. At any fixed S of the matrix, but the circuit exactly one element equal to 1 is contained in each line of the matrix, but the rest are zeros. The element equalling to 1 shows which will be the S of outputs at the given S of inputs and of the circuit. The states of the outputs are determined by:

The rules for the determination of the elements of the matrices of S and of the reactions ore given as well as the operations with the matrices. With the aid of examples the application of matrices of S and of reactions for the analysis and synthesis of non-

Card 2/3

## "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

On Non-Primitive Circuits

307/112-59-18-3374

primitive circuits is shown. For complex non-primitive circuits it is recommended to break them down into sub-circuits. The relations between the elements of the matrices of the subcircuits and those of the whole circuit are shown. 16 illustrations, le

V.N.R.

Card 3/3

```
PETLIN, S.; MUSTAFAYEV, S., inzh.-mekhanik

Processing earcoun in the production of mixed feeds. Maik.-elev.

prom. 27 no.11:15-19 N '61.

(MIEM 14:12)

1. Fenzenskoye upravleniye zagotovok (for Petlin). 2. Kakhskiy
zavod po obrabotke semyan kukuruzy (for Mustafayev).

(Corn(Maize))

(Feed mills.-Equipment and supplies)
```

# Movable scraper conveyor. Muk.-elev. prom. 26 no.9:21 S 160. (MIPA 13:9) 1. Glavnyy inzhener Penzenskogo upravleniya khleboproduktov. (Conveying machinery)

PETLITSKIY, V.; SIDOROV, S.

Automobiles with small carrying capacity. Avt.transp. 37 no.3:
59-60 Mr '59.

(Notortrucks)

(MIRA 12:4)

## "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

**《 1987年 1987年 1987年 1987年 1987年** 

PETL'OVUHIYY, V.

Truby ignaiut zariu Burles play reveille J. Moskva, Voennoe Inlatel'stvo, 1953.

SO: Monthly List of Russian Accessions, Vol 6 No 4, July 1753

SOV/133-59-3-25/32

Petrenko, A.G., Kurtova, L.A., Petlyakov, M.M. and AUTHORS:

Belyakov, A.I.

Heterogeneity of Magnetic Properties of Cold-rolled Transformer Steel (Neodnorodnost' magnitnykh svoystv TITIE:

kholodnokatancy transformatornoy stali)

Stal', 1959, Nr 3, pp 267 - 268 (USSR) PERIODICAL:

During the production of cold-rolled transformer steel on the Novosibirsk Works, some lots of sheets possessed ABSTRACT:

unsatisfactory magnetic properties. On inspection of the surface of rejected sheets, zones with a fine-grain structure were noticed. Metallographic investigations

indicated that in the fine-gram zones the edge of the [100] of nearly each individual grain formed an angle with the direction of rolling while in the remaining metal practically all grains were orientated along the rolling practically all grains were of the necessary texture was also direction. The absence of the necessary texture was also confirmed by magnetic anisotropy (Figure 1). Re-annealing at 1 200 °C in hydrogen of faulty sheets did not improve at 1 200 °C in hydrogen of faulty sheets did not improve their magnetic properties. The presence of the above fine-

grain zones can be explained either by their higher carbon

content (from traces of grease films from rolling which Card1/2

Heterogeneity of Magnetic Properties of Cold-rouled Transformer Steel

carburised the affected spots) or small amounts of Min, Cu, Ni or N or by the presence of non-metallic inclusions. It is concluded that in order to obtain good quality transformer steel without fine-grain zones, it is necessary to prevent the contamination of the metal and a more complete decarburisation of steel.

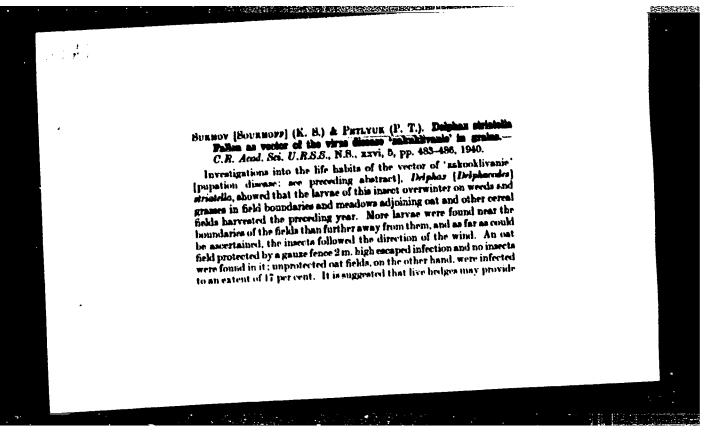
There are 2 figures, 1 table and 6 references 5 and the second steel.

to although the second and the second

There are 2 figures, 1 table and 6 references, 5 of which are Soviet and 1 English.

ASSOCIATIONS: TsNIIChM and Novosibirskiy metallurgicheskiy zavod (Novosibirsk Metallurgical Works)

Card 2/2



## "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

ti ngilio kabu wakatu ng Tangganagan sanata

PETLIUK, P. T.

SURACV, R. S., a. PETMIK, P. T. "Delicate in Grains," Compten Tendus (Doklady) de l'academie the Virus Disease 'Zakaklivanie' in Grains," Compten Tendus (Doklady) de l'academie des Sciences de l'URSS, vol. 26, no. 5, 1040, pp. 483-486. 511 P444

So: SIRA SI-90-53, 15 Dec. 1953

PETLIUK, P. T.

Petlluk, P. T. Co-author See: Sukhov, K. S. "Belphax striatella lallen as a Vector of the Virus Disease 'Zakuklivanie' in Grains," 1940.

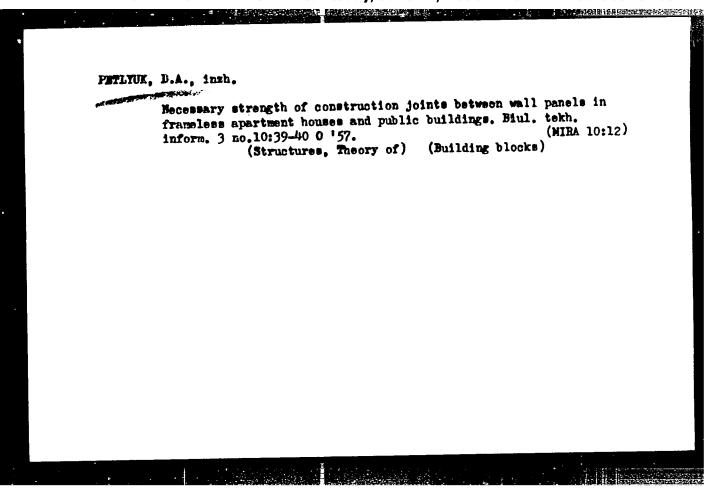
So; SIRA - Si-90-53, 15 Dec 1953

# PETLTAK, A.7. Improving signaling on curves. Avtom., telem. i aviax' no.1:38-39 (MLRA 10:4) Ja '57. 1. Zamestitel' nachal'nika distantsii signalizatsii stantsii Kiyev -paseashirskiy. (Railroads--Signaling)

PETLYAKOV, M.M., inzh.; SHAPOVALOV, A.P., inzh.; GUSAKOV, A.N., inzh.; UDOVICHENKO, N.V., inzh.; BESPALOV, V.N., inzh.; KUZNETSOV, D.K., inzh.; SUKHANOV, L.F., :nzh.

Obtaining a flat sheet of transformer steel. Stal 25 no.12:  $(MIRA\ 1c:12)$ 

l. Novelipetskiy metallurgicheskiy zavod i TSentral'nyy nauchneissledovatel'skiy institut chernoy metallurgii imeni l.F. Bardina.



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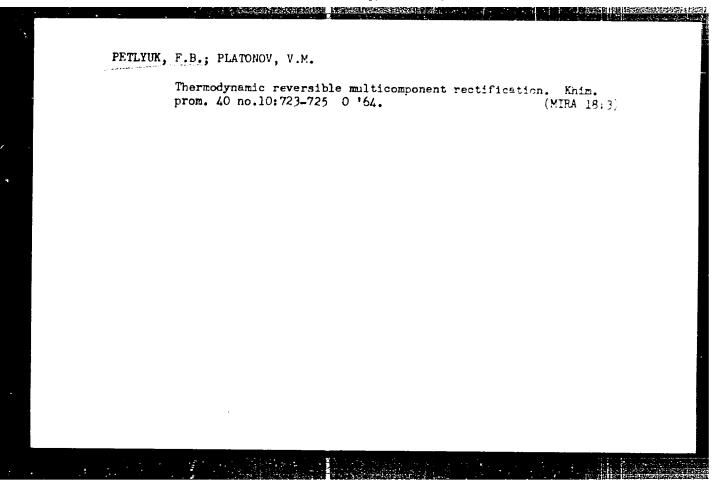
PETLYUK, F.B.; PLATONOV, V.M.

Solving a general problem of approximation by the method of steepest descents. Zav. lab. 29 no.10:1221 '63. (MIRA 16:12)

1. Nauchno-issledovatel'skiy institut sinteticheskikh smol i organicheskikh produktov.

PETLYUK, F.B.; PLATONOV, V.M.; GIRSANOV, I.V.

Calculation and design of optimum rectification stages. Ehim. prom. no.6:445-453 Je '64. (MIRA 18:7)



PLATONOV, V.M. (Moskva); PETLYUK, F.B. (Moskva); GIRSANOV, I.V. (Moskva)

Minimum work function of separation during metification of a binary mixture in a real column. Zhur. vych. mat. i mat. fiz. 3 no.3:
594-598 My Je '63. (MIRA 16:5)

(Isotope separation) (Plate towers)

PLATONOV, V.M.; PETLYUK, F.B.; GIRSANOV, I.V.

Optimum designing of a rectification apparatus by means of a digital computer. Khim.prom. no.10:764-769 0 '&c.

(MIRA 15:12)

(Distillation apparatus)

PETLYUK, V.

Subject : USSR/Aeronautics

AID P - 412

Card 1/1

Pub. 135, 8/17

Author

: Petlyuk, V., Lt. Col.

T1tle

: Special features of fighter navigation at night

Periodical

: Vest. vozd. flota, 9, 42-45, S 1954

Abstract

: The author begins with a description of the visibility of ground orientation points at night. He underlines the necessity of relying on instrument flying, light signals, orientation of jet aircraft during night flights. Examples of Names of officers are mentioned.

Institution: None

Submitted : No date

PETLYAKOV, M.M., anzh., Phav. Tha, T., anzh., alisar Pe, e M., anzh., ALYSHTVA, Yell., inzh.

Elfect of the atmosphere of blyb-temporature annealing on the properties of transformer steel. Stall 24 ng.29120.171 E tox., M.Ra. 1719

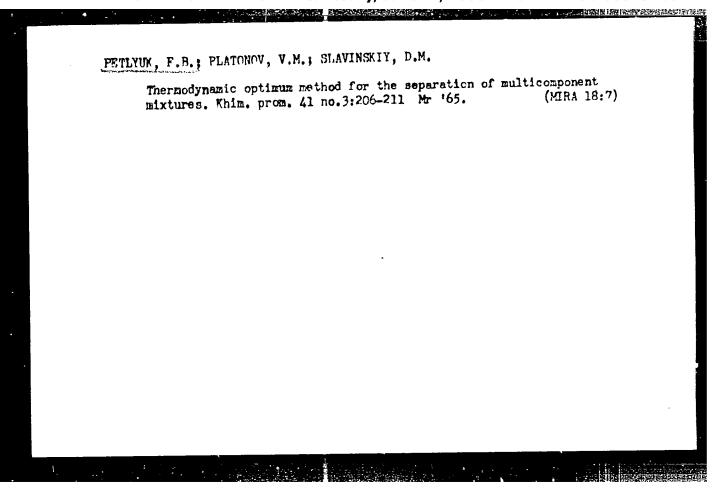
1. Novelipetskiy metalluriformerly vaved.

PETLYAKOV, V. M.

Aviation progress under the Soviet. A description of the work of the Russian Central Aero-Hydro-Dynamic Institute with some of its practical results. (Aviation, 1930, v. 28, no. 3, p. 108-112, illus., map).

DLC: TL501.A8

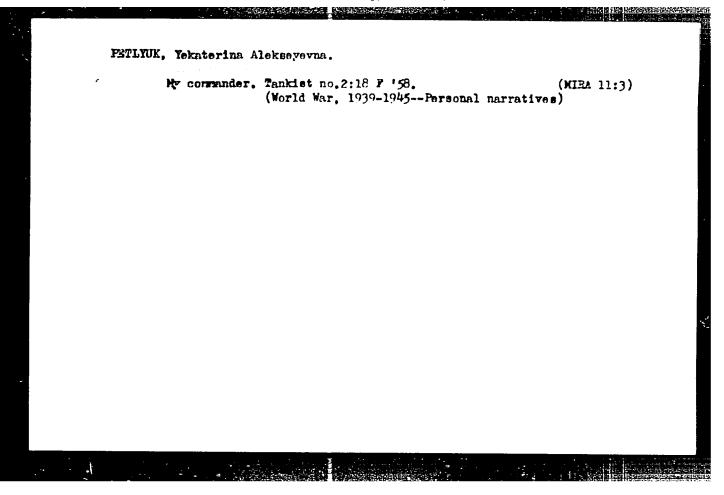
SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

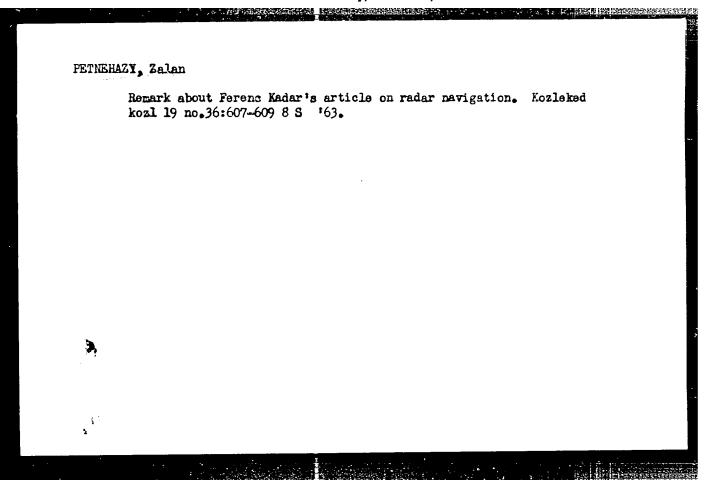


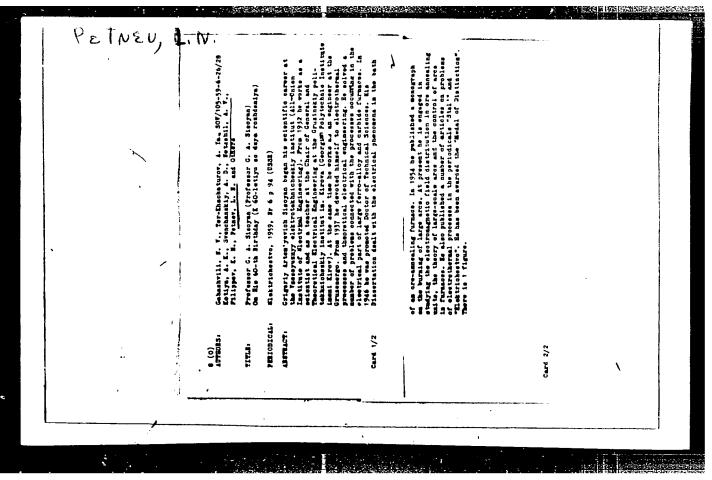
NOSOV, Nikita Alekseyevich; TSYUPKO, Grigoriy Ivanovich; PETLYUK, Vladimir Iosifovich; BABAY, G.A., polkovnik, redaktor; MEDVEDEV, I.M., gvardii mayor, redaktor; MYASHIKOVA, T.P., tekhnicheskiy redaktor

[Flying a single-seater plane] Vozhdenie odnomestnogo samoleta. Pod red. G.A.Babai. Moskva, Voen.izd-vo Ministerstva obor. SSSR, 1956. 247 p.

(Airplanes--Piloting)







# "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA

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# PETO, E.; SOLYMOSS, B.

Role of liver function tests in the preoperative preparations of thyroid patients. Orv. hetil. 94 no.11:291-294 15 Mar 1953. (CIML 24:4)

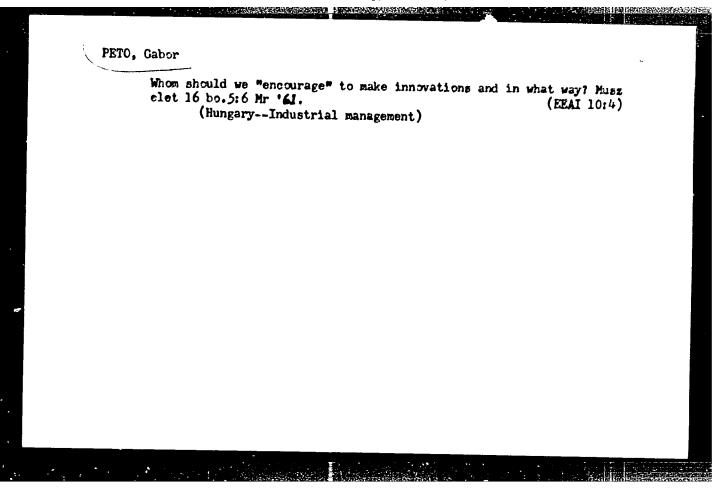
1. Doctors. 2. Surgical Department (Head Physician -- Dr. Erno Peto, Director) and Central Laboratory (Head Physician -- Dr. Bela Solymoss), Szowbathely County Hospital.

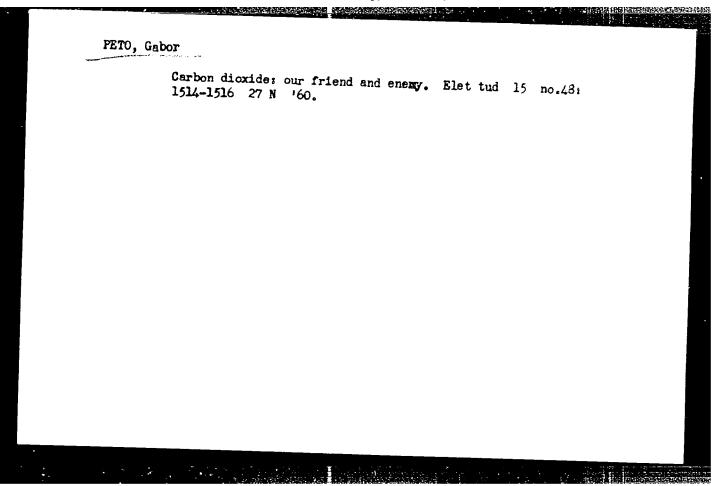
JANCSO, Tibor, okleveles vegyeszmernok; LAKLIA, Tibor, okleveles vegyeszmernok; PETO, Edit, dr., okleveles kozgazdasz; SCHILL, Ottmar, okleveles gepeszmernok; SIPOTZ, Istvan, dr., okleveles kozgazdasz; TURKOVICS, Gyorgy, okleveles banyamernok

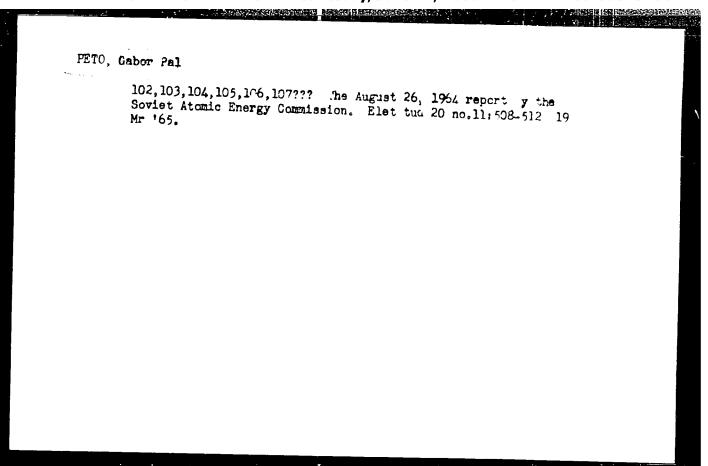
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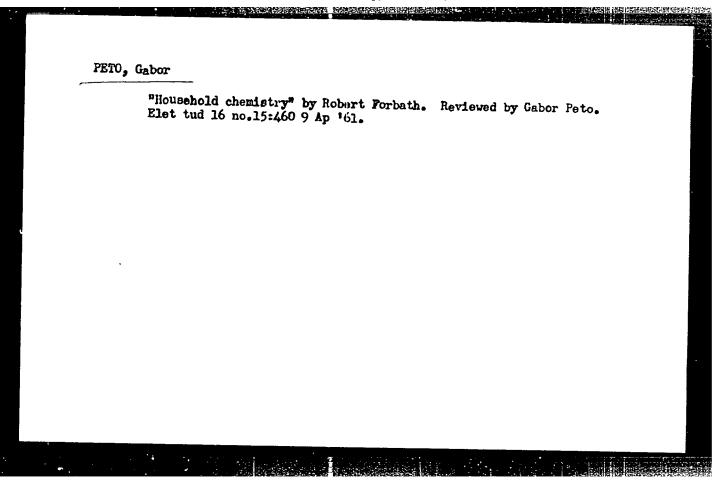
General economic aspects of transporting crude oils, oil products and natural gas through pipelines. Bany lap. 97 no.9:626-634 S '64.

1. Petroleum and Gas Industry Planning Enterprise, Budapest.









# Style and society. Munka 13 no.2:17 F '63. 1. \*Alet es Tudomany\* munkatarsa.

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KOVACSICS, Janos, dr.; PETO, Gyulane

Experiences and problems concerning organized employment for new physicians and pharmacists. Nepegeszsegugy 45 no.5:129-135 My 64.

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PETO, J.

PETO, J. - Water need of retrocooling condensational power plants. p. 302, Vol. 9, no. 8, Aug. 1956 Magyar Energiagazdasag - Budapest, Hungary

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

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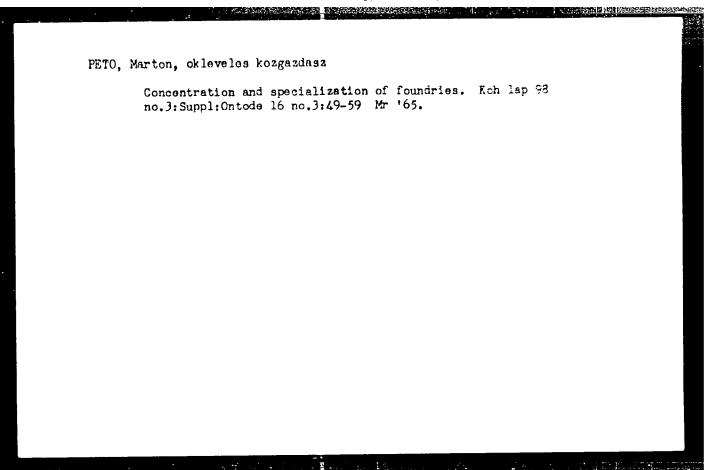
## PETO, Jozsef

"Questions relating to the economy and design of the Elaenau

Ffeatinieg pumped-storage system" by E.S.Both et al. Reviewed
by Jossef Peto. Energia es atom 13 no.4/5:140-145 Ap-My 160.

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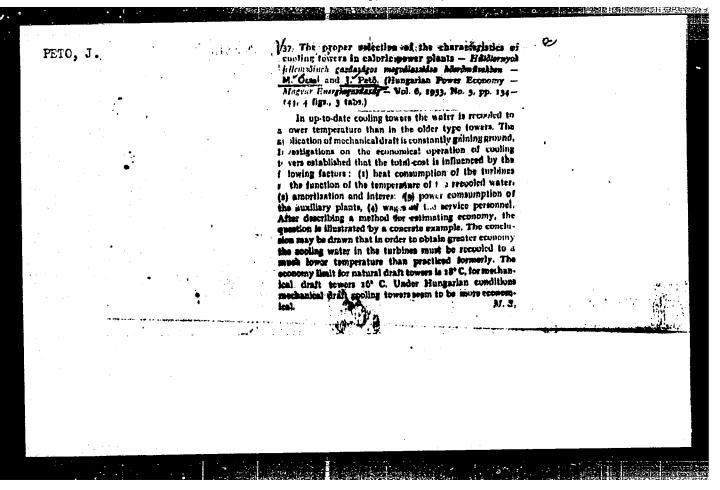
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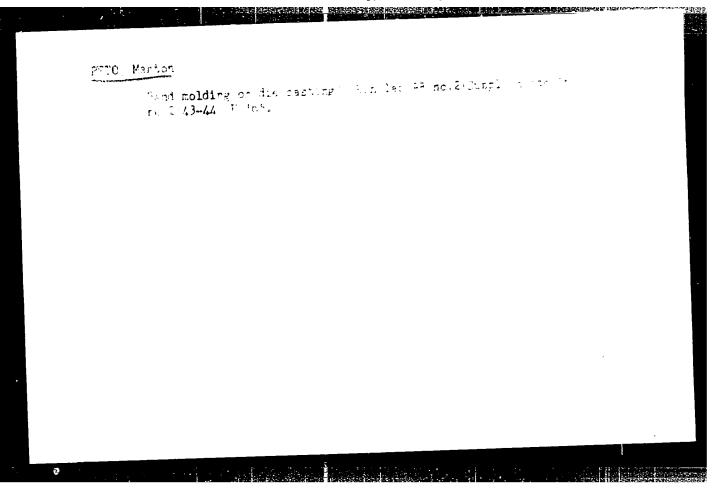


HAJOS, K.; PETO, M.; POGANY, I.

Fungus sensitivity examinations of allergic (asthmatic) patients. Orv. hetil. 93 no. 36:1025-1030 7 Sept 1952. (CIML 23:5)

1. Doctors. 2. Szovetseg-utcai Hospital, Internal Department.





HAJOS, K.; PETO, M.; POGANY, I.

Hypersensitivity to moulds and fungi in allergic (asthmatic) patients. Acta med. hung. 4 no.2:143-155 1953. (CDE 25:1)

1. Of the Medical Department of Szovetseg-utca Hospital, Budapest.

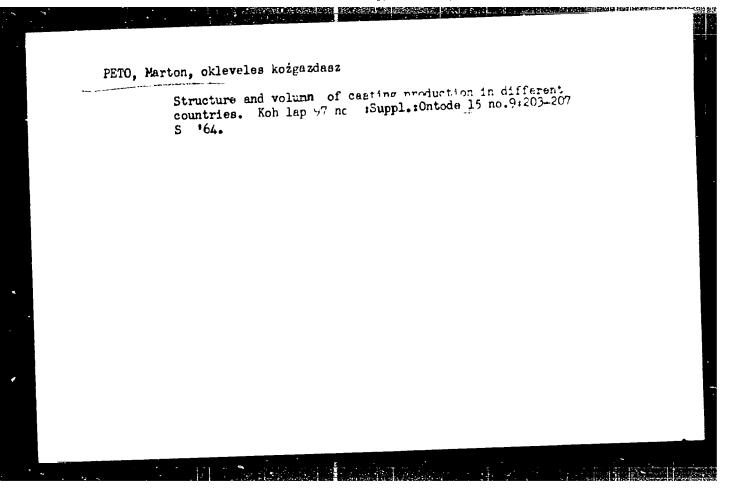
HAJOS K., PETO M. and POGANY I. Med. Dept., Szovetseg-utca Hosp., Budapest Hypersensitivity of moulds and fungi in allergic (asthmatic) patients Acta med. Acad. Scient. hung. (Budapest) 1953, 4/2 (143-155) Tables 4
Fungi are important in the causation of allergic diseases. Hypersensitivity to Trichophyton occurs frequently. The passive transfer of hypersensitivity to Trichophyton (Epidermophyton, Mucor and Aspergillus) could be easily demonstrated. It was detected that there are many cases of hypersensitivity to moulds in bronchial asthma. In such cases specific desensitisation resulted in a symtom-free interval lasting, 13-14 months. This procedure represents a new approach to the causal treatment of bronchial asthma.

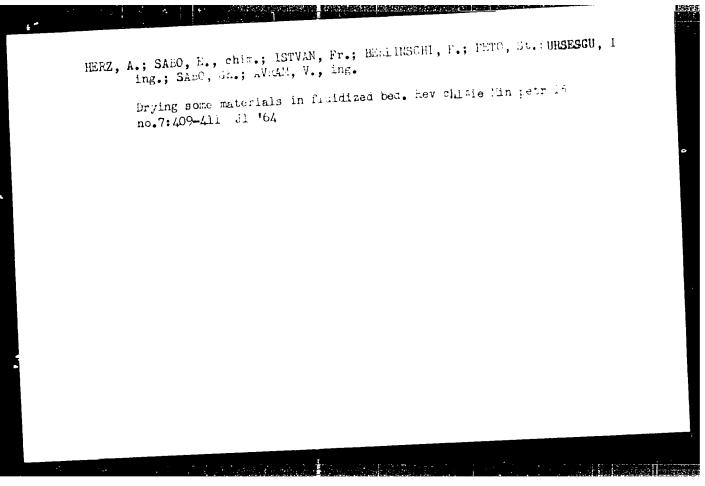
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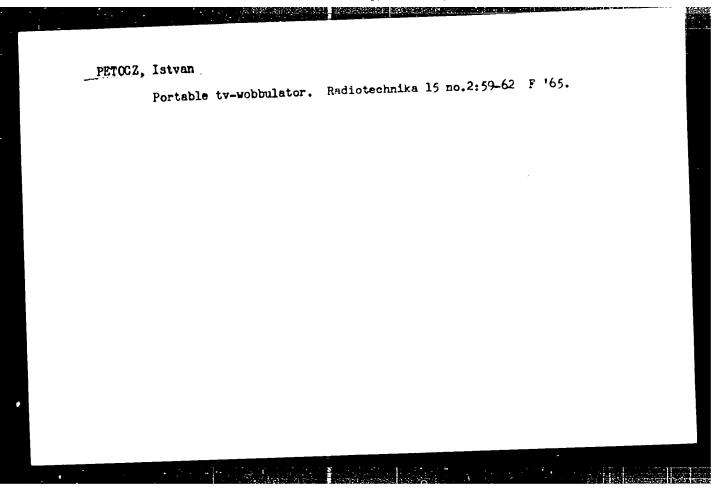
SO: EXCERPTA MEDICA, Vol. 8 No. 2, Section VI. February 1954

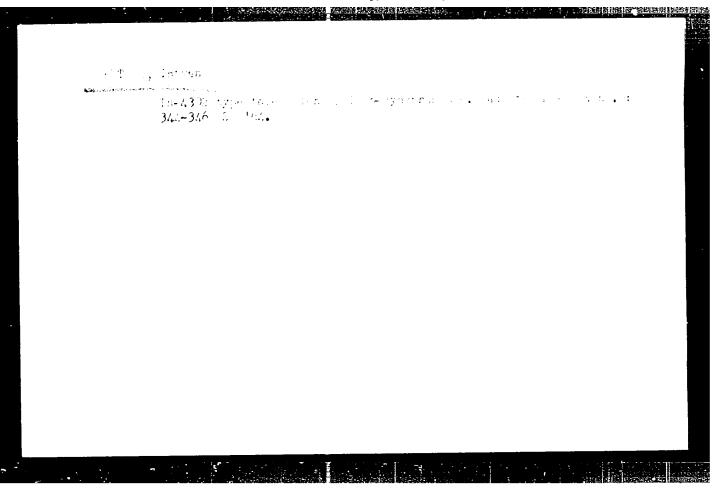
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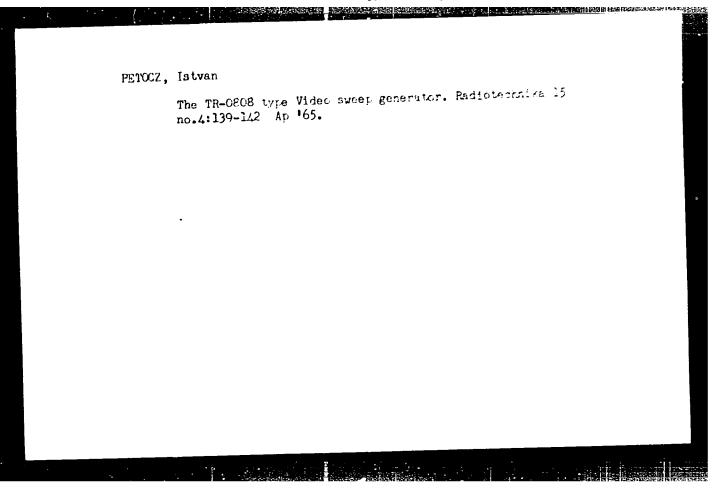
Effect of the change in labor-consuming processes on the efficiency of iron casting production. Koh lap:Suppl.:Ontode 14 no.8:178-184 Ag \*63.











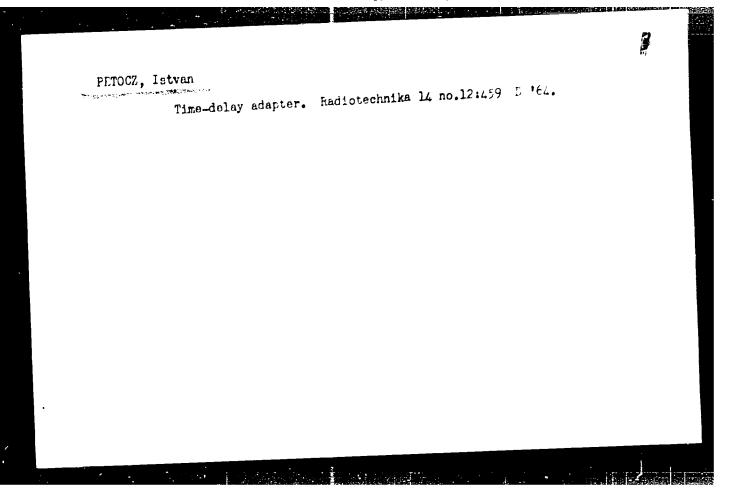
KOMLOS, E.; PETOCZ, Lujza E.

Synergism of geatropine (R) (N-p-phenyl benzyl atropinium browide)
and trioxazine (R-(3,4,5-trinethoxybenzoyl)-tetrahydro-1,4-oxazine).
Acta physiol. hung. 19 no.1-4:179-187 '61.

1. Pharmacological Laboraty, United Works of Pharmaceutical and Dietetic Products, Budapest.

(ATROPINE related compounds)

(THA NQUILIZING AGENTS pharmacology)



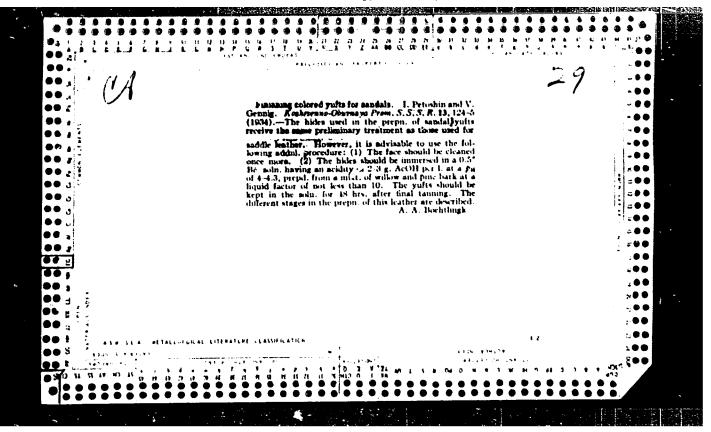
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PETOCZ, P.

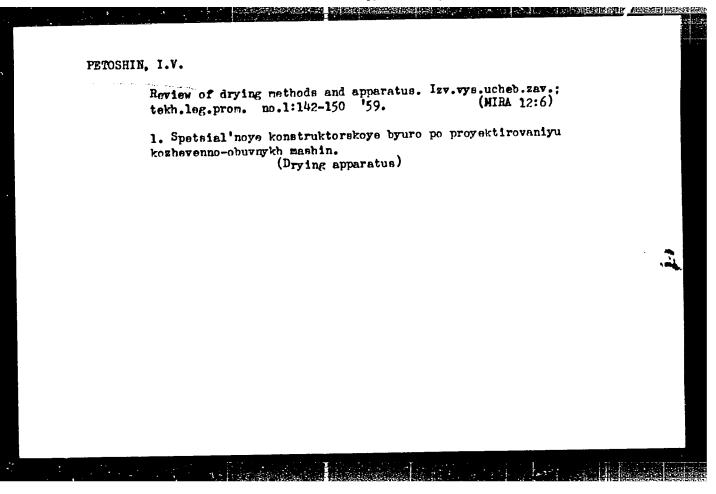
INCZE, M.; PETOCZ, P.

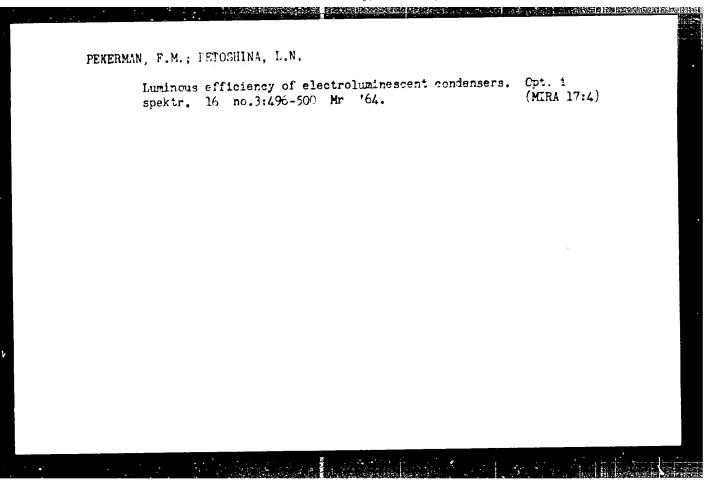
"The working peasant's situation under the Horthy fascism." p. 550. (Termeszet es Technika, Vol. 112, no. 9, Sept 53, Budapest)

SO: Monthly List of East European Accessions, Vol 3 No 2 Library of Congress Feb 54 Uncl



# More about the performance of worm type material-handling machinery. Kosh.-obuv. prom. 2 no. 11:7-8 N '60. (Materials handling) (Leather industry--Equipment and supplies)





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24(4), 24(6)

SOV/51-6-5-18/34

AUTHORS:

Kazankin, O.N., Pekerman, F.M. and Petcshina, L.N.

TITLE:

Electrolumines cent Phosphors Based on Sulphides and Selenides

(Elektrolyuminofory na sul'fidselenidnoy osnove)

PARIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 5, pp 672-677 (USSR)

ABSTRACT:

Efficient ZnS.ZnSe-Cu electrolumines cent phosphors cannot be obtained by heating in a stream of H2S + HCl because, even if one starts with pure ZnSe, the final substance contains no more than 40% of ZnSe. Obviously the stream of H2S + HCl produces a considerable replacement Under such conditions the electroluminescent of selenium by sulphur. phosphors had emission maxima at wavelengths not longer than 530-540 mm and their emission brightness was much smaller than that of the usual green electrolumines cent phosphore based on 2nS-Cu. The authors propared 7 classification of the phosphors by placing a charge in a horizontal quartz tul. Asing over it a stream of H2S + HCl for 30 mins at room temperature. Then the tube was placed in a furnace, but the H2S + HCl stream was no longer passed over it. the amount of ZnSe in the final phosphor was always smaller than in the original charge. The authors found that with increase of the amount of ZnSe the electroluminescence spectra of the phosphors are

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Electroluminescent Phosphora Based on Sulphides and Selenides

shifted towards longer wavelengths (Fig 1). By varying the amount of ZnSe from 10 to 100% it was possible to obtain phosphors whose emission maxima lie in the region from 510 to 630 mm when excited with a 5000 c/s, 400 V field. The emission spectrum of each phosphor was found to depend on the frequency and voltage of the applied field and on temperature. With increase of frequency the emission spectrum was displaced towards shorter wavelengths and this displacement was particularly clear in phosphors with small amounts of ZnSe (Fig 2). Increase of the applied voltage from 350 to 700 V displaced slightly the emission spectra towards short wavelengths (this displacement did not exceed 5 mu). Heating of phosphors shifted their emission towards longer wavelengths (20 mm displacement on change or temperature from -10°C to +50°C). The relative emission brightness of phosphors with various amounts of ZnSe is given in Table 2 (ZnS-Cu emission was taken as 100). Table 2 shows that the relative emission brightness of ZnS.ZnSe-Cu phosphers varied from 1 (70% of ZnSe) to 29 (10% of ZnSe). The results obtained contradicted theoretical predictions that addition of Se should increase electroluminescent brightness. Addition of Se affected the dependence of the emission brightness on the frequency and voltage of the applied field. The voltage dependence of brightness

Card 2/4

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Electrolumines cent Phosphors Based on Sulphides and Selenides

(Fig 3), even in phosphors with large amounts of ZnSe, followed Zalm's law (Ref 2)

where B is the brightness, y is the frequency of the applied field, U is the applied voltage (up to 900 V, and the quantities A, a are It was found that phosphors with large amounts of ZnSe begin to emit at smaller voltages and the almost-linear portions of the voltage dependences of their brightness rise more sharply. The frequency dependences (0-15 kc/s) are shown in Fig 4. It is found that at high frequencies saturation does not occur in phosphors with large amounts of 2nSe. Fig 5 shows the temperature dependences of brightness of ZnS.ZnSe-Cu phosphors in the region from -140 to +80°C. The brightness rises first with temperature, reaches a maximum and then falls. On increase of the amount of Zn3e in the phosphor the fall begins at lower temperatures. All the described properties of chosphors with large

Card 3/4

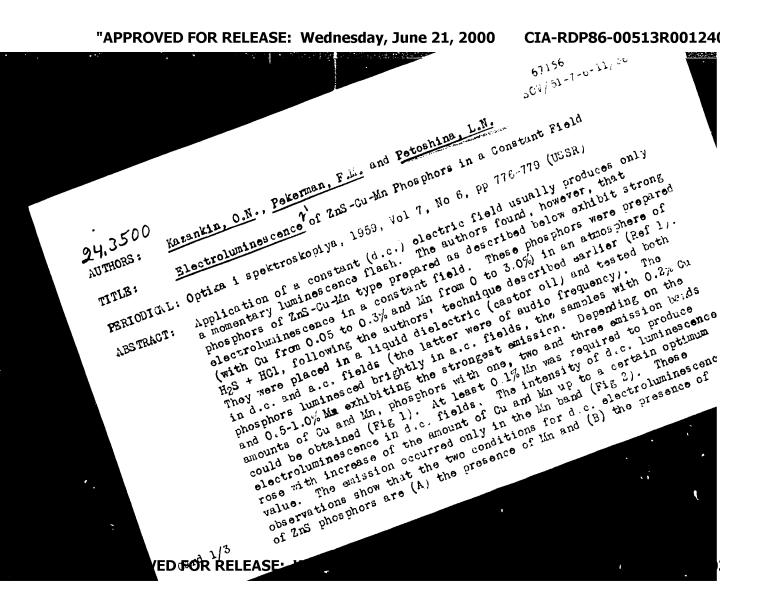
507/51-6-5-18/34

Electroluminescent Phosphora Based on Sulphides and Selenides

amounts of ZnSe are due to shallowness of the local levels produced by selenium. There are 5 figures, 2 tables and 7 references, 3 of which are Soviet, 2 English and 2 Datch.

SURMITTED: June 9, 1959

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Electroluminescence of ZnS-Ju-Mn Phosphors in a Jonstant Field

Cu as Cu2S, the latter raising the conductivity of the phosphor very considerably (Fig 4, Table 1). On application of a d.c. field the luminescence intensity did not remain constant. The time decendence of the d.c. luminescence was affected by the amounts of Cu and Mn. For example Fig 3 shows the time dependences of 2nS-Cu-Mn phosphors with 2% Mn and various amounts of Cu from 0.1 to 0.3%. The latter figure shows that at low concentrations of Cu (curve 1) the intensity begins to fall immediately after application of the d.c. field. When larger amounts of Cu are present the intensity first rises rapidly and then falls at a lower rate (curves 2 and 3). In some cases the rise may last tens of minutes; the duration of the rise depends on the conditions of preparation. The eventual fall of the d.c. lumines conce intensity is due to polarization processes which reduce the internal accelerating field The authors carried out also the following experiment. An a.c. field was first applied to a phosphor and its emission intensity was determined This field was switched off and 2-3 min later a d.c. field was applied Then the d.c. field was removed, the a.c. field of the original amplitude was again used and the electroluminescence intensity Was measured. It was found that this treatment raised the intensity by up to three times. This intensification of luminescence was found to

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Electroluminescence of ZnS-Gu-Mn Phosphore in a Constant Field

depend on the amounts of Cu and Min and on the conditions of preparation (Table 3). The intensification effect was related directly to the presence of excess Cu2S. By washing in potassium cyanide which dissolves Cu2S, the intensification effect could be destroyed almost completely (Table 4). There are 4 figures, 4 tables and 3 references, 1 of which is Soviet and 2 English.

SUBMITTED: May 13, 1959

Card 3/3

PERSHIAN LA

51-4 -1-10/26

AbinOnd: Razankin, C.H. and Page mine, L.N.

TIME: Lifect of respect to an electroluminescence of Powder

Phosphors. (Vliyaniye temperatury na elektrolyami-

nestsentsiyu poroshkoobraznykh lyuminoforov.)
PERIODICAL: Optika i Spektroskopiya, 1958, Vol.IV, Mr.1,

pp. 76-81. (USSR)

ABSTRACT: The authors studied, in several powder phosphors.

change of intensity of electroluminescence with temperature (known as electrothermoluminescence)

and the effect of temperature on the form of brightness waves. Measurements were made from - 160 to + 100°C.

An electrophosphor was mixed with a dielectric and

placed in a cell whose lawer electrode was an aluminium plate and the upper electrode was of conducting glass.

The distance between the electrodes was 300  $\mu$ . Blectro-

Card 1/6 luminoscence was excited by an alternating field of

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Effect of Pemperature on Electroluminescence of Powler Phosylons 50-20 000 c/s frequency. Electroluminescence was measured with a photomultiplier  $\Phi$  9Y-19. In the study of thermal emission curves the electrophos har was excitul at  $-160^{\circ}\mathrm{C}$  by means of ultraviolet light (365 mm). All phosphors used were in powder form and they were immersed in coctor oil (dielectric). Fig.1 gives the electrothermoluminescence (continuous) and thermoluminescence (dashed) curves for five phosphors: ZnS-ZnSe, Cu, Jns-Cu, Mn, ZnS-Cu, Pb,  $\Delta nS = Cu$ , A1,  $\Delta nS = Cu$ . From = 160 to = 50  $^{\circ}S$  the intensity of electroluminoscence remains practically constant, but on further mentin; it rises rapidly and reaches a maximum which is different for different phosphors. The authors studied the effect of the Card 2/6 activator concentration, of quenching substances of

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51-4 1-10/26 difect of wemperature on Blescholadices of the American hoses and ano, as soft a frequency fittle golden first on the position of electrother chammedones assume. and the continuous of edger is wheel round. to case (by select) in and-Ju, Al passe, hore, the plectrothermod winescent thereon have roughty and a manimum at about  $+60^{\circ}$ U ( $\mu$ 1 $\mu$ 2). To 11 1 1 1 15 feet of and, a amorphish propher was chiciasa in the second in dir for 20 min tor . TCG J. Judio 2 mm lydra showed that of our cash was about the cample construct 20% of and. Suth a product lil not policy as appropriable charge in the absorbaria employing money curves (11,.3). In Amb-Ju, Je, At the production in cleotrocae, elucinecounce amaimm uno feama de dejard Card 3/6 strongly on the emount of Do (table on 2.75); tith

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Effect of remperature on ulimbrolization while of Proder Pacognosis. 51-4-1-10/26 increase of the import of it the landom moved . Wirls lower temperatures. In Zub-Se, Al the electrotherms lumineccence massisum vas signated become la bispec temporatures by about 15 1 men the applicational frequency was increased they have those locally 5000 c/s). The inthors many the self-self contains Position of the electrothermolaminessence and read depends on the chemical natura of the phospher, presence of quenching substance and some a frequency of the applied field. The oreales to line rad closure luminoscent cripareco, que higher que tue enquira esc at which electrothernoluminaceense reaches it: maximum. [40.0.in] coboberes Hegle e the manimum toward. lower comperatures. There is of the applied-Card 4/6 field Trequency sisplaces the management countries ligher

51-2 -1-10/26 Affect of Temperature or .loctrolumination of fundamination temperatures. Temperature affects also the form of brightness waves (variations of instantaneous of instanta intensity with time, see Fig.4) of ZnJ and  $\Delta nJ_{-\Delta n} = 0$ phosphors activated with corper. In the stable to powder phosphors the electrothermoluminescence are possess maxima which are different from the thermeluminesceme curves. The non- providence of Lumina of these curves indicates that electron... "jected lie..." local levels in chermolumi. Describe are not of [r] importance in electroluminate neces. A checry pass forward by Thermson (Ref.11), in a paint line a paint simultaneous action of electric field and cover the in freeing of electrons from regram levels, lives Card 5/6 electrothermoluminespence cargon close in Journ to those

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obtained by the present authors. There are a figure... I table and 12 references, of which it is demand a greathy and American.

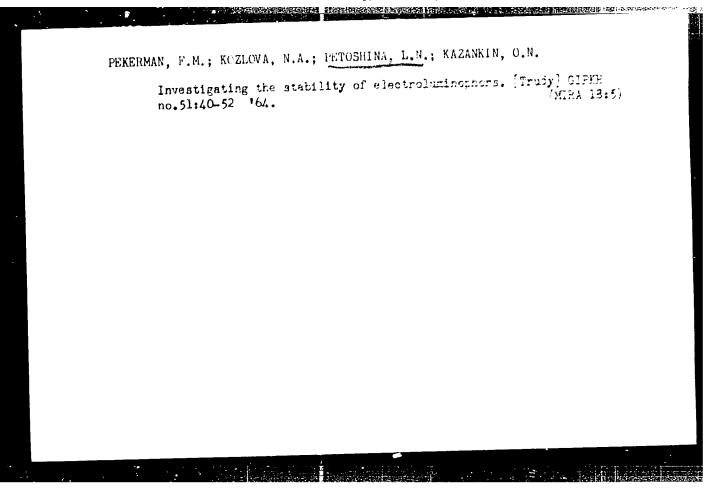
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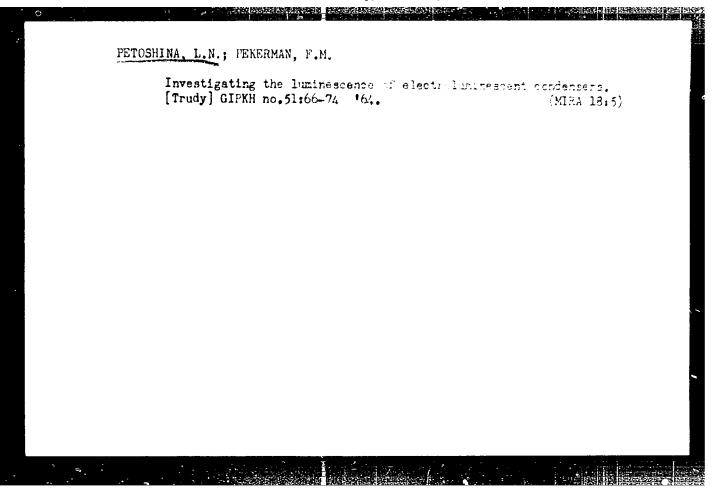
bUBLITAD: March 21, 1957.

AVAILABLE: Library of Congress.

1. Phosphore-Excitation 2. Photomultipliers-Applications

Card 6/6





HERE IS WAS THE PRODUCTION OF THE PROPERTY OF

ACCESSION NR: AP4020963

S/0051/64/016/003/0496/0500

AUTHOR: Pekerman, F.M.; Petoshina, L.N.

TITLE: Investigation of the luminescence efficiency of electroluminescent capaci-

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tors

SOURCE: Optika i spektroskopiya, v.16, no.3, 1964, 496-500

TOPIC TAGS: electroluminescence, electroluminescence efficiency, luminescence yield, electroluminescent capacitor design, electroluminescence excitation

ABSTRACT: The luminescence yield or efficiency of electroluminescent capacitors is one of their most important characteristics, for it is an indication of the efficiency of conversion by the device of electric to radiant energy. The purpose of the present work was to develop a reliable procedure for determining the luminescence efficiency of electroluminescent capacitors and electroluminophors. The paper gives the results of measurements of the yield of electroluminescent cells prepared in different ways and excited under different conditions. The light flux was measured by means of a selenium photocell with a correcting filter; the power consumed by the capacitor was evaluated by an oscillographic method, for the usual method of calcu-

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lating the power consumed is valid only for sinusoidal voltages. The measurements showed that the efficiency goes through a max um with increasing voltage; with variation in frequency the luminescence efficient y rises to a peak in the range from 2000 to 4000 cps (the exact value differs for different capacitors). Measurements were also made using the same luminophor (not specified) in different dielectrics (resin varnishes); the best results were obtained with an epoxy resin. Tests showed that the efficiency increases with increase of the luminophor concentration in the dielectric, but to a lesser degree than the brightness because the power consumption also rises. Measurements with phosphors of different grain size indicated an increase in efficiency with reduction in grain size owing to reduction of the power consumed. Aging experiments indicated that with aging the efficiency decreases more slowly than the output (brightness), again because the power consumption decreases with decrease in the conductivity of the aging luminophor. "In conclusion, we express our gratitude to A.M.Bonch-Bruyevich and Ya.A.Oksman for consultations on a number of questions involving procedure and to F.Ya.Vaysberg for preparing some of the electroluminescent capacitors." Orig.art.has: 1 formula, 2 figures and 2 tables.

2/3 Card

ACCESSION NR: AP4020963
ASSOCIATION: none
SUBMITTED: 21May63 DATE ACQ: 02Apr64 ENCL: 00
SUB CCDE: Pil NR REF SOV: 001 OTHER: 006

Cord 3/3

Kazakir, O.F.; Pskehud, F.H.; Patosara, L.F.

Electroluninescence of Zrs-G.-in pacophors in a constant lield.
Opt. 1 apaktr. 7 no. 6:776-77; in 159.

(Zinc sulfide) (Luminescence)